

# PATENT COOPERATION TREATY

## PCT

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference <b>SC/ar040242WO</b>	<b>FOR FURTHER ACTION</b> See Form PCT/IPEA/416	
International application No. <b>PCT/IB2004/003073</b>	International filing date (day/month/year) <b>21-09-2004</b>	Priority date (day/month/year) <b>24-09-2003</b>
International Patent Classification (IPC) or national classification and IPC <b>See Supplemental Box</b>		
Applicant <b>Nokia Corporation et al</b>		

  

<ol style="list-style-type: none"> <li>1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</li> <li>2. This REPORT consists of a total of <u>5</u> sheets, including this cover sheet.</li> <li>3. This report is also accompanied by ANNEXES, comprising:               <ol style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> (sent to the applicant and to the International Bureau) a total of <u>4</u> sheets, as follows:                   <div style="margin-left: 20px;"> <input type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).  <input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.                 </div> </li> <li>b. <input type="checkbox"/> (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).</li> </ol> </li> </ol>																								
<ol style="list-style-type: none"> <li>4. This report contains indications relating to the following items:               <table style="width: 100%; border: none;"> <tr> <td style="width: 10%;"><input checked="" type="checkbox"/></td> <td style="width: 20%;">Box No. I</td> <td>Basis of the report</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. II</td> <td>Priority</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. III</td> <td>Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. IV</td> <td>Lack of unity of invention</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Box No. V</td> <td>Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. VI</td> <td>Certain documents cited</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. VII</td> <td>Certain defects in the international application</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. VIII</td> <td>Certain observations on the international application</td> </tr> </table> </li> </ol>	<input checked="" type="checkbox"/>	Box No. I	Basis of the report	<input type="checkbox"/>	Box No. II	Priority	<input type="checkbox"/>	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability	<input type="checkbox"/>	Box No. IV	Lack of unity of invention	<input checked="" type="checkbox"/>	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement	<input type="checkbox"/>	Box No. VI	Certain documents cited	<input type="checkbox"/>	Box No. VII	Certain defects in the international application	<input type="checkbox"/>	Box No. VIII	Certain observations on the international application
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Date of submission of the demand  <b>05-07-2005</b>	Date of completion of this report  <b>29-12-2005</b>
Name and mailing address of the IPEA/SE Patent- och registreringsverket Box 5055 S-102 42 STOCKHOLM Facsimile No. +46 8 667 72 88	Authorized officer  <b>Jan Silfverling/MN</b> Telephone No. +46 8 782 25 00

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/IB2004/003073

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: Cover sheet

**INTERNATIONAL PATENT CLASSIFICATION (IPC):**

**G06F 3/14 (2006.01)**

**G09G 5/391 (2006.01)**

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/IB2004/003073

Box No. I Basis of the report

1. With regard to the language, this report is based on:

☐  
☐

the international application in the language in which it was filed

a translation of the international application into \_\_\_\_\_,  
which is the language of a translation furnished for the purposes of:☐

international search (Rules 12.3(a) and 23.1(b))

☐

publication of the international application (Rule 12.4(a))

☐

international preliminary examination (Rules 55.2(a) and/or 55.3(a))

2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:☐

the international application as originally filed/furnished

☒

the description:

pages 1 - 54 as originally filed/furnished

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

☒

the claims:

pages \_\_\_\_\_ as originally filed/furnished

pages\* \_\_\_\_\_ as amended (together with any statement) under Article 19

pages\* 1 - 4 received by this Authority on 19-12-2005

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

☒

the drawings:

pages 1 - 11 as originally filed/furnished

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

☐

a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:☐

the description, pages \_\_\_\_\_

☐

the claims, Nos. \_\_\_\_\_

☐

the drawings, sheets/figs \_\_\_\_\_

☐the sequence listing (*specify*): \_\_\_\_\_☐any table(s) related to the sequence listing (*specify*): \_\_\_\_\_4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).☐

the description, pages \_\_\_\_\_

☐

the claims, Nos. \_\_\_\_\_

☐

the drawings, sheets/figs \_\_\_\_\_

☐the sequence listing (*specify*): \_\_\_\_\_☐any table(s) related to the sequence listing (*specify*): \_\_\_\_\_

\* If item 4 applies, some or all of those sheets may be marked "superseded."

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/IB2004/003073

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

## 1. Statement

Novelty (N)	Claims	<u>1-21</u>	YES
	Claims		NO
Inventive step (IS)	Claims	<u>1-21</u>	YES
	Claims		NO
Industrial applicability (IA)	Claims	<u>1-21</u>	YES
	Claims		NO

## 2. Citations and explanations (Rule 70.7)

New amended claims have been filed.

Reference is made to the following documents:

D1: US 20020191031 A1

D2: EP 1253510 A

D3: EP 0949571 A2

D4: BJÖRK ET AL: "WEST: a Web Browser for Small Terminals" UIST. PROCEEDINGS OF THE ANNUAL ACM SYMPOSIUM ON USER INTERFACE SOFTWARE AND TECHNOLOGY, vol. 1, no. 1, 1999, pages 187-196.

D5: US 6593944 B1

Document D1 discloses a method for presenting at least a part of an object on a screen comprising at least partially dividing at least one object into a plurality of sub-objects, see [0028] and figure 3B, presenting said plurality of sub-objects in a first representation and in response to a user operation on said at least one active sub-object, presenting at least one of said at least one active sub-objects in a second representation and making at least one sub-object of said plurality of sub-objects an active sub-object, see [0020] and figure 2B.

Documents D2-D5 is showing similar technique as D1.

The new amended claim 1 differs from D1 in that at least one sub-object of said plurality of sub-objects is determined to be made an active sub-object. As a user can select at least

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International application No.

PCT/IB2004/003073

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: BOX V

one active sub-object for presenting in a second representation, the determining of at least one sub-object to be made active enables to make that sub-objects being selectable.

Therefore, the invention according to claim 1 is new and it is not considered obvious for a person skilled in the art to reach the invention according to claim 1 by knowing documents D2-D5.

The same reasoning applies for the other new amended independent claims 17-19 and 21.

Therefore, the invention according to claims 1-21 is new and considered to have inventive step and industrial applicability.

Set of Amended Claims

1. A method for presenting at least a part of an object, comprising:
  - at least partially dividing at least one object into a plurality of sub-objects;
  - presenting said plurality of sub-objects in a first representation,
  - determining at least one sub-object of said plurality of sub-objects to be made an active sub-object; and
  - making said at least one sub-object of said plurality of sub-objects an active sub-object; and
  - in response to a user operation on said at least one active sub-object, presenting at least one of said at least one active sub-objects in a second representation.
2. The method according to claim 1, wherein said at least one object and said sub-objects are 3D-objects.
3. The method according to claim 1, wherein said at least one object is a page, and wherein said sub-objects are areas.
4. The method according to claim 1, wherein in said user operation, at least one of said at least one active sub-objects is selected, and wherein at least said selected sub-object is presented in said second representation.
5. The method according to claim 1, wherein at least two sub-objects of said plurality of sub-objects are made active sub-objects.

19-12-2005

6. The method according to claim 1, wherein said at least partial division of said at least one object into said plurality of sub-objects is based on a structure of at least a part of said at least one object.
7. The method according to claim 1, wherein said at least partial division of said at least one object into said plurality of sub-objects is based on a sectioning algorithm.
8. The method according to claim 1, wherein in said first representation, at least one sub-object of said plurality of sub-objects is scaled to a size that is smaller than the original presentation size of said respective sub-object.
9. The method according to claim 1, wherein in said first representation, at least one sub-object of said plurality of sub-objects is cropped.
10. The method according to claim 1, wherein in said first representation, at least one sub-object of said plurality of sub-objects is indicated by an icon.
11. The method according to claim 1, wherein sub-objects of said plurality of sub-objects with a size that is above a size threshold, or that contain an amount of information that is above an information threshold are made active sub-objects, or both.
12. The method according to claim 1, wherein at least one of said at least one active sub-objects is automatically focused, or selected according to a selection criterion, or both.

19-12-2005

13. The method according to claim 1, wherein in said second representation, said at least one active sub-object is scaled to a size that is larger than its size in said first representation.
14. The method according to claim 1, wherein within at least one of said sub-objects presented in said first representation, elements can be directly selected by a user.
15. The method according to claim 1, wherein said plurality of sub-objects is composed of different types of sub-objects, and wherein at least one group of sub-objects of a second type is associated with at least one sub-object of a first type.
16. The method according to claim 15, wherein said at least one active sub-object that is present in said second representation is said at least one sub-object of said first type, and wherein in response to a further user operation on said at least one sub-object of said first type, said at least one group of sub-objects of said second type associated with said at least one sub-object of said first type is presented.
17. A computer program with instructions operable to cause a processor to perform the method steps of claim 1.
18. A computer program product comprising a computer program with instructions operable to cause a processor to perform the method steps of claim 1.
19. A device for presenting at least a part of an object, comprising:



- means for at least partially dividing at least one object into a plurality of sub-objects;
  - means for presenting said plurality of sub-objects in a first representation;
  - means for determining at least one sub-object of said plurality of sub-objects to be made an active sub-object; and
  - means for making said at least one sub-object of said plurality of sub-objects an active sub-object; and
  - means for presenting at least one of said at least one active sub-objects in a second representation.
20. The device according to claim 19, wherein said sub-objects are presented on a display of a portable electronic device.
21. A system for presenting at least a part of an object; comprising:
- means for at least partially dividing at least one object into a plurality of sub-objects;
  - means for presenting said plurality of sub-objects in a first representation,
  - means for determining at least one sub-object of said plurality of sub-objects to be made an active sub-object; and- means for making said at least one sub-object of said plurality of sub-objects an active sub-object; and
  - means for presenting at least one of said at least one active sub-objects in a second representation.